

Computer Science (Subjective)

Time: 02:10 Hours

Marks: 60

SECTION – I**2. Write short answers to any SIX parts.**

12

(MS – Access)

- (i) What do you know about data dictionary?
- (ii) What is index?
- (iii) How is entity integrity achieved?
- (iv) What is database anomaly?
- (v) What is meant by RDBMS?
- (vi) Define entity.
- (vii) State the use of wild cards.
- (viii) How is criteria specified in query?
- (ix) What is sub-form?

3. Write short answers to any SIX parts.

12

(C – Language)

- (i) Distinguish between source code and object code.
- (ii) What is meant by machine independence?
- (iii) What is the use of "define" preprocessor?
- (iv) List two causes of syntax error.
- (v) What is variable? Why it is used in programs?
- (vi) Declare a float variable with name avg.
- (vii) Find errors in the following code segment:

```
int m, n;
m = 10.3;
n = 5;
printf ( "%d", m )
```
- (viii) Predict output of the following code segment:

```
int x = 5;
printf ( "%d \t %d", 2 * x, 3 + x );
```
- (ix) What is text stream?

OR (Visual Basic)

- (i) What is the difference between events and methods?
- (ii) How are the properties set at design time and run time?
- (iii) Write two rules for naming controls in VB.
- (iv) Why Visual Basic is called even-driven language?
- (v) What are three steps for creating VB projects?
- (vi) Write the purpose of textbox control?
- (vii) What is the purpose of command button?
- (viii) List types of property values?
- (ix) What is meant by show form method?

4. Write short answers to any SIX parts.

12

(C – Language)

- (i) Define standard input.
- (ii) List three types of format specifiers.
- (iii) Convert the following code into do-while loop:

```
int i = 0;
while ( i == 1 )
{
    printf ( "loop statement" );
    i += 2;
}
```
- (iv) Predict the output:

```
int a = 5;
if ( a % 2 == 0 )
    printf ( "Pakistan" );
else
    printf ( "Zindabad" );
```
- (v) What is conditional operator?
- (vi) Convert the following code to an equivalent if-else statement:
 $(x > y) ? x * y : x + y;$
- (vii) Draw the flowchart of do-while loop.
- (viii) What is sentinel value?
- (ix) Trace the output of the following code:

```
printf ( "Book \t reading \n" );
printf ( "is a \t very good" );
printf ( "Habbit" );
```

(Continued P / 2)

OR (Visual Basic)

- | | |
|--|--|
| (i) Define standard input | (ii) What is default property of command button? |
| (iii) Trace output:
if 10 mod 5 == 1 then
print "OK"
End if | (iv) How many times the following loop execute?
i = 10
do while i > 1
i = i + 1
loop |
| (v) Describe logical operators. | (vi) Draw the flowchart of: if – then – else structure |
| (vii) Write the syntax of while-wend loop. | (viii) What is goto statement? |
| (ix) Define nested loop. | |

SECTION – II Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

5. Define data processing. What activities are involved in data processing? Discuss in detail.
6. Discuss different data distribution strategies in detail.

Attempt any TWO questions either from C-Language OR Visual Basic

(C – Language)

7. What is switch statement? Explain its working with the help of example.
8. Write a program that gets starting and ending point from the user and displays all odd numbers in the given range using loop.
9. What is a global variable? Explain its scope and life time with example.

(Visual Basic)

7. What is select --- case structure? Explain its working with the help of an example.
8. Write a program that gets starting and ending point from the user and displays all odd numbers in the given range using loop.
9. What is a global variable? Explain its scope and life time with example.

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